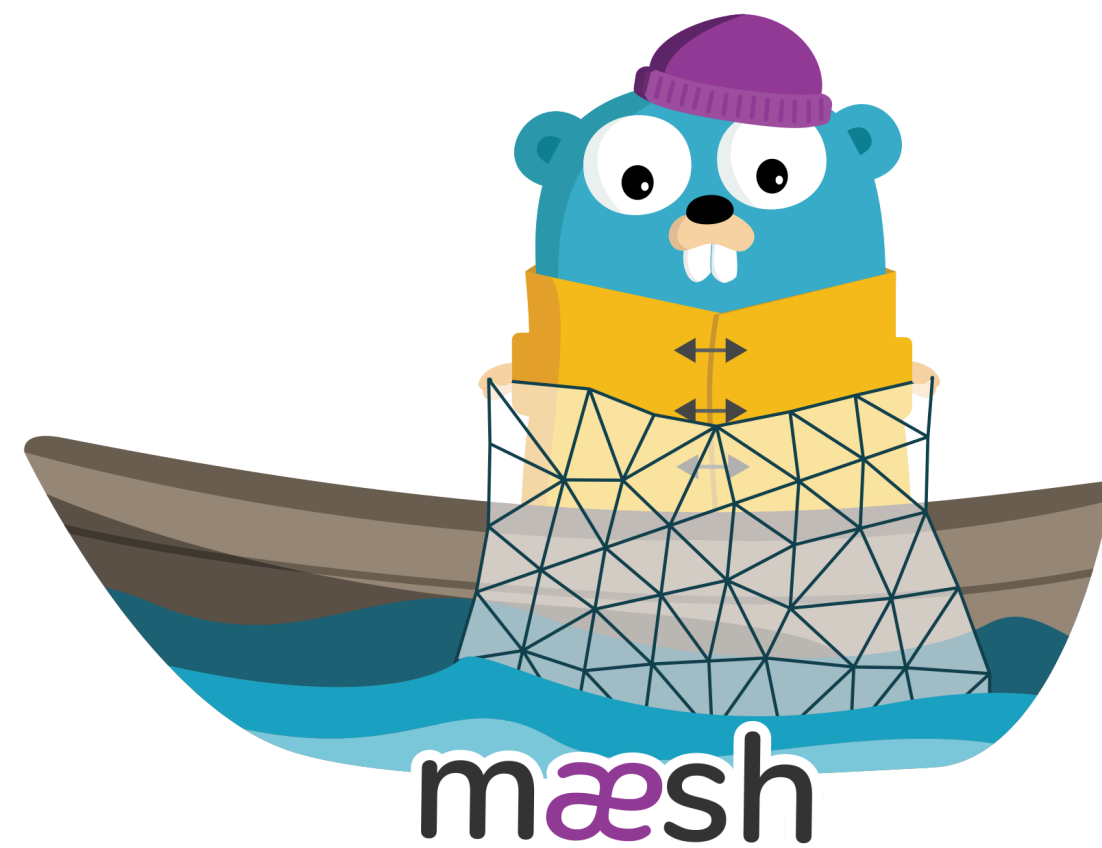


# Maesh Online Meetup - October 2019



Maesh Online Meetup - October 2019

# How To Use These Slides?

- **Browse the slides:** Use the arrows
  - Change chapter: Left/Right arrows
  - Next or previous slide: Top and bottom arrows
- **Overview of the slides:** keyboard's shortcut "o"
- **Speaker mode (and notes):** keyboard's shortcut "s"

# Whoami 1/3

- Michael Matur
  - Devops & Solution Architect @ Containous
- Blacksmith on Traefik
-  @michaelmatur
-  mmatur



# Whoami 2/3

- Daniel Tomcej:
  - Træfik Developer @ Containous
-  @daniel\_tomcej
-  dtomcej



# Whoami 3/3

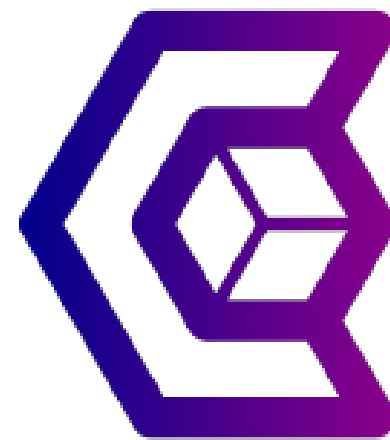
- Manuel Zapf:
  - Træfik's Solution Architect 🛠️ @ Containous
- 🐦 @mZapfDE
- 🐙 SantoDE



# Containous

<https://containo.us>

- We Believe in Open Source
- We Deliver Traefik and Traefik Enterprise Edition
- Commercial Support
- 30 people distributed, 90% tech



# What The Heck Is A Service Mesh?

*A service mesh is a configurable network layer inside your cluster to handle network-based communication among your applications. It ensures that this communication is fast, reliable and secure.*

# Benefits

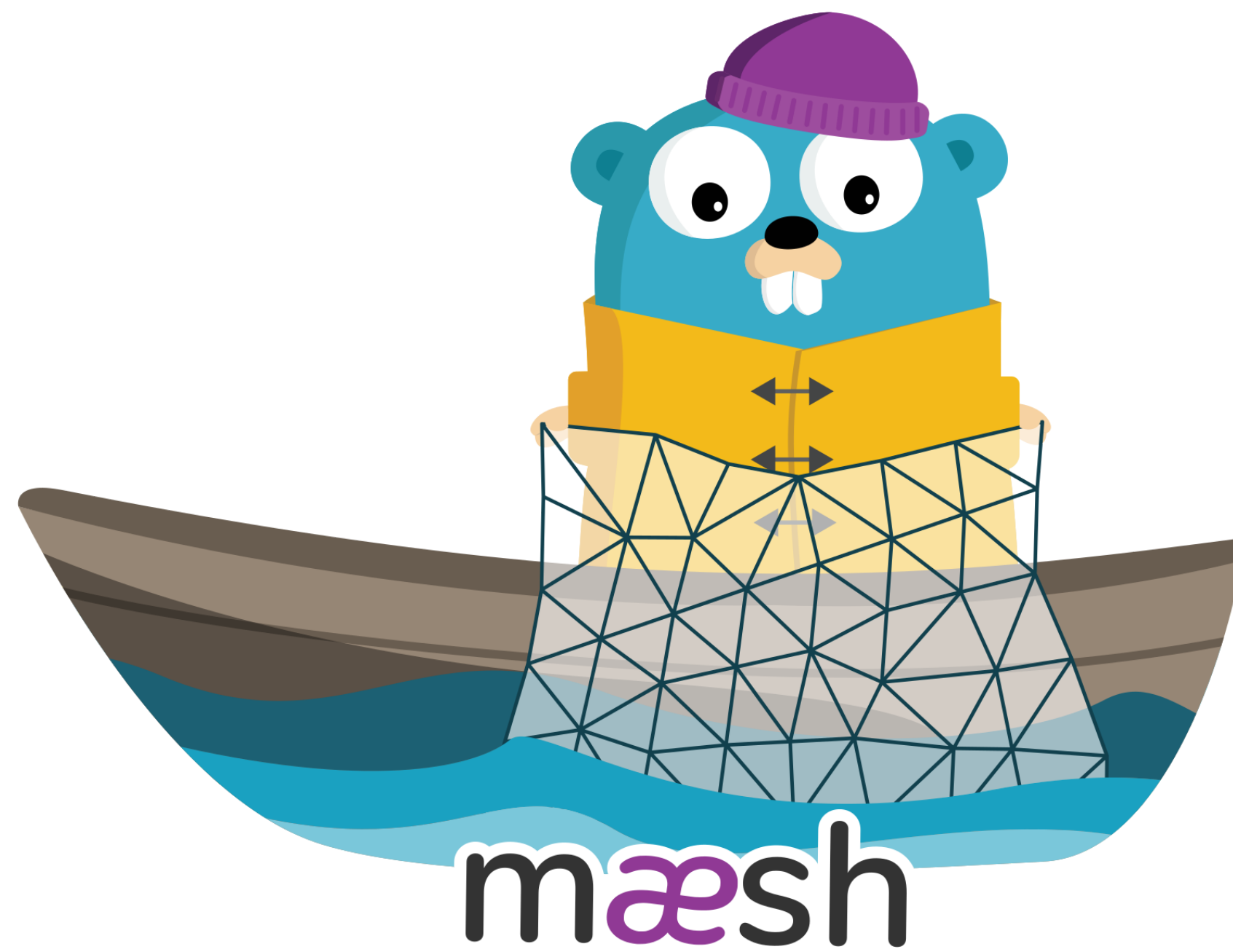
- Provides extended functionality (Service Discovery, Load Balancing...)
- Centralized instead of having to reimplement features across Services
- Provides abstraction layer for network functions
- Traffic Control



# Challenges

- Current solutions can be complex to understand
- Resource Intensive
- Slowness: Service meshes are an invasive and intricate technology
- Lock-In

# Say Hello To Maesh



# What Is Maesh?

*Maesh is a lightweight, easy to configure, and non-invasive service mesh that allows visibility and management of traffic flow inside any Kubernetes cluster.*

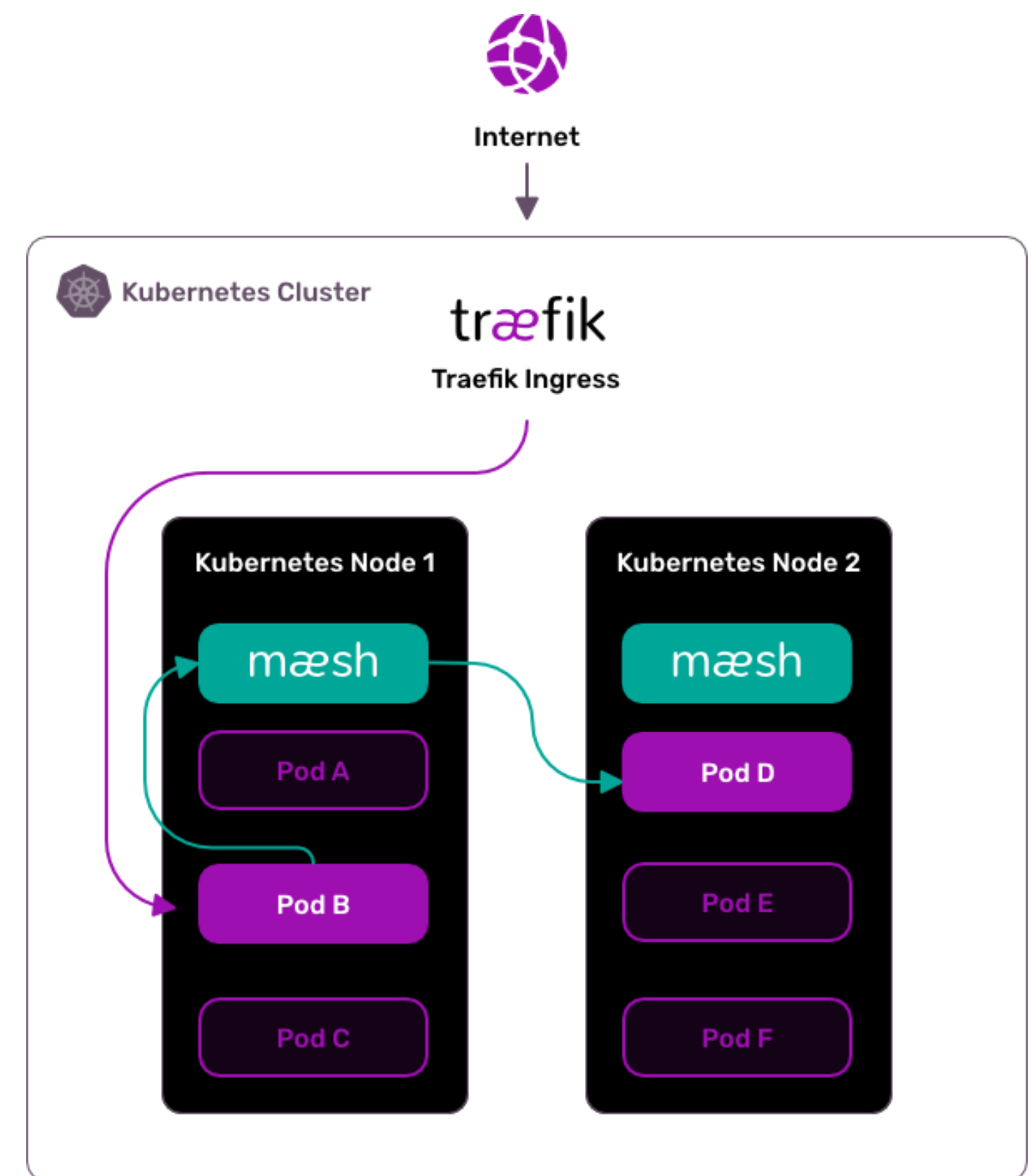
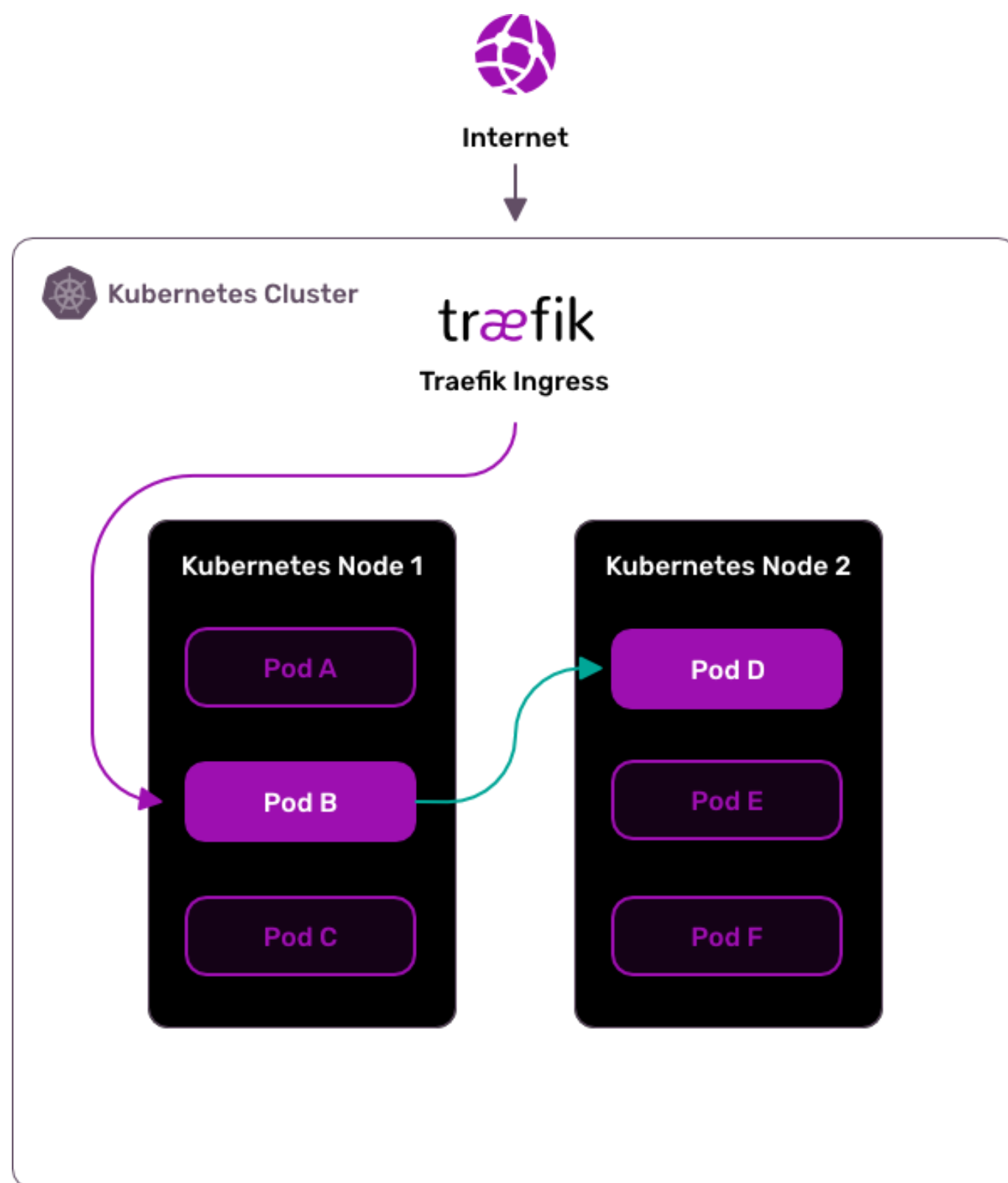
# More On Maesh

- Built on top of Traefik,
- SMI (Service Mesh Interface specification) compliant,
- Opt-in by default.

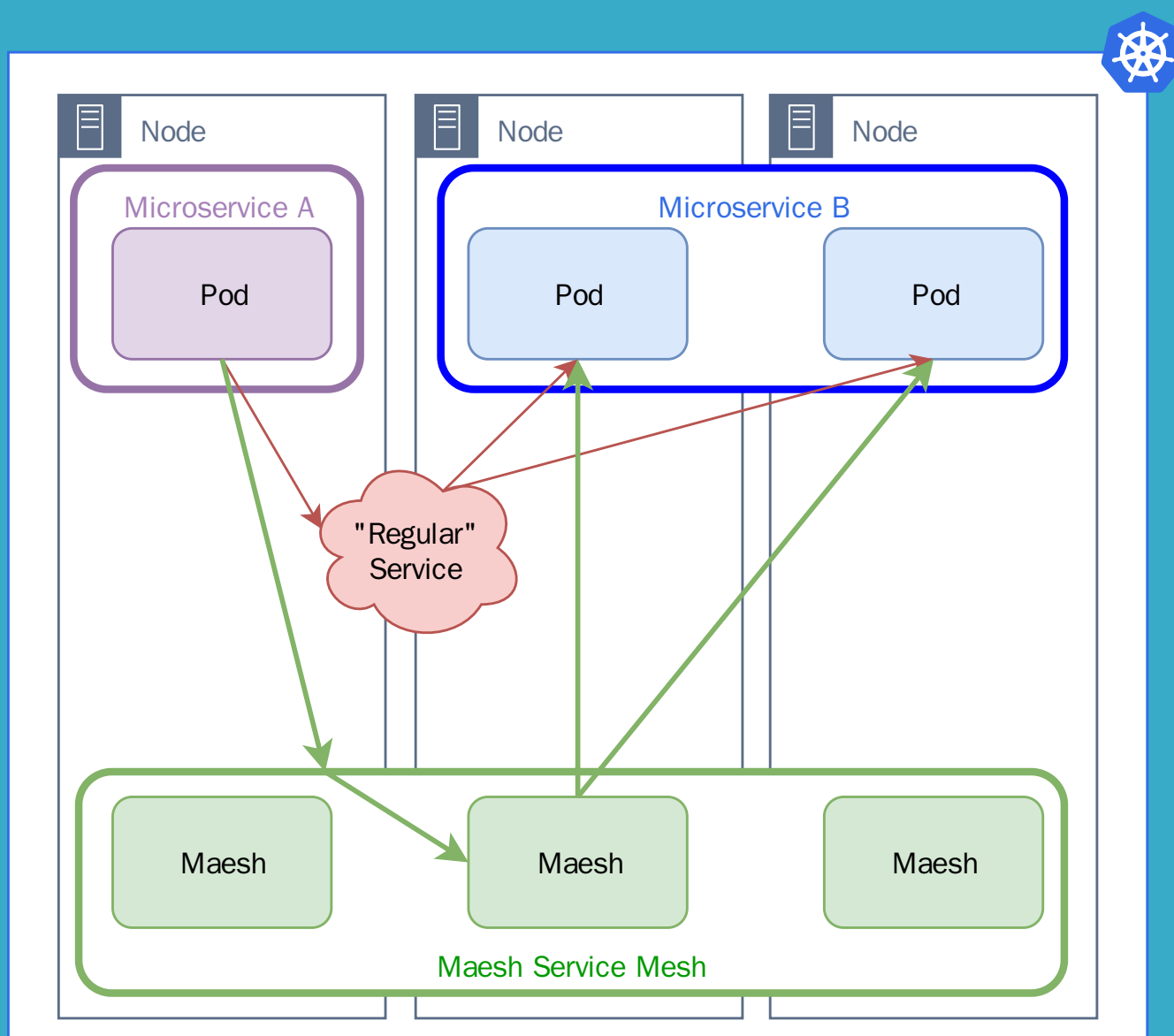
# Features

- OpenTracing / Metrics
- Retries & failovers
- Circuit breakers & Rate limits
- Access controls
- Easy installation

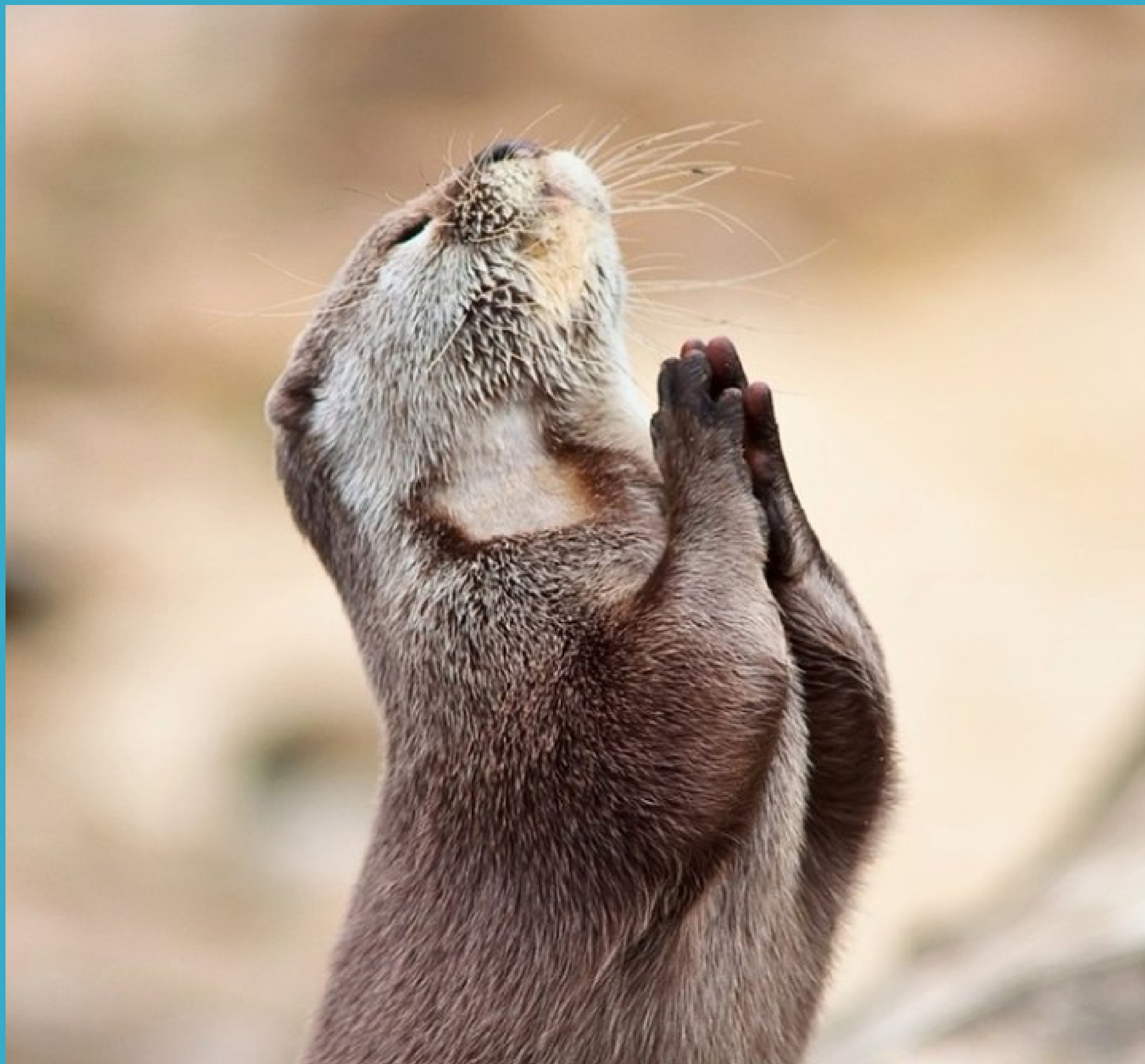
# Maesh Architecture



# Communication Flow



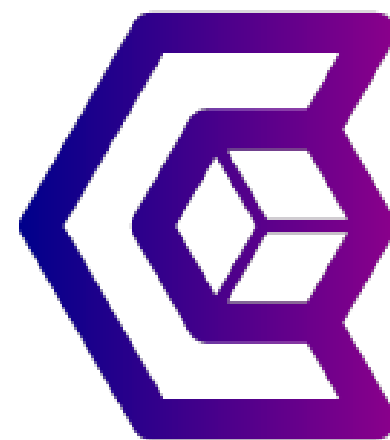
# Demo





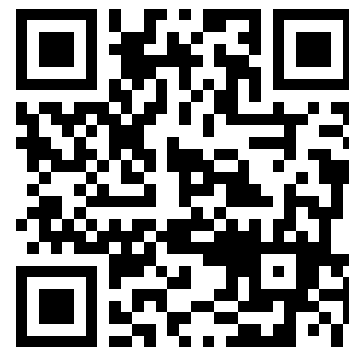
*That's All Folks!*

# *We Are Hiring!*



```
docker run -it containous/jobs
```

# Thank You!



- Slides (HTML): <https://containous.github.io/slides/maesh-online-meetup>
- Slides (PDF): <https://containous.github.io/slides/maesh-online-meetup/slides.pdf>
- Source on : <https://github.com/containous/slides/tree/maesh-online-meetup>